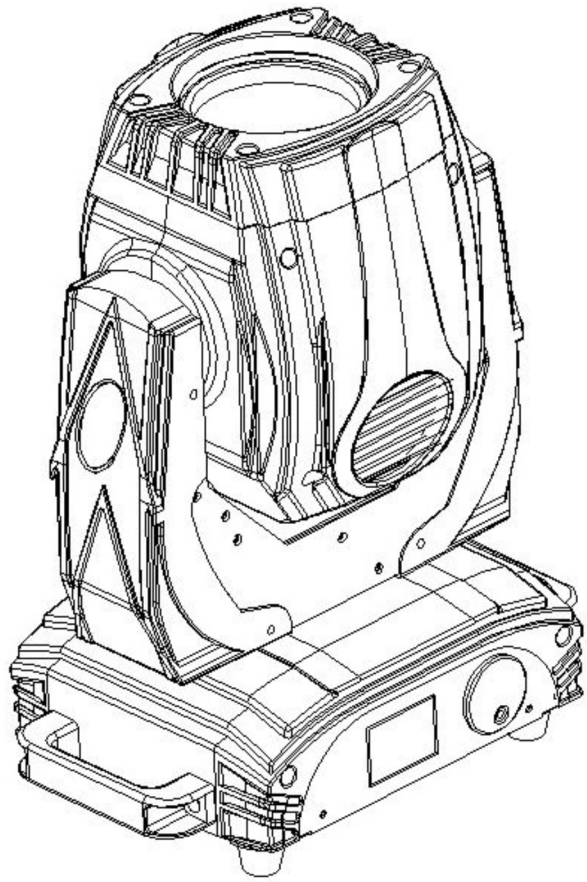
Show Atelier

# DIALighting Pro 2R Beam



DIAL IGHTING

**KEEP THIS MANUAL FOR FUTURE NEEDS**

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## Caution!

- Be careful with your operations. With a dangerous voltage you can suffer a dangerous electric shock when touching the wires!
- Avoid looking directly into the light source!
- Keep this device away from rain and moisture!
- Make sure it is grounded when using it!
- Unplug mains lead before opening the housing!
- For your own safety, please read this user manual carefully before you initial start-up.
- Every person involved with the installation, operation and maintenance of this device has to

- be qualified

- follow the instructions of this manual

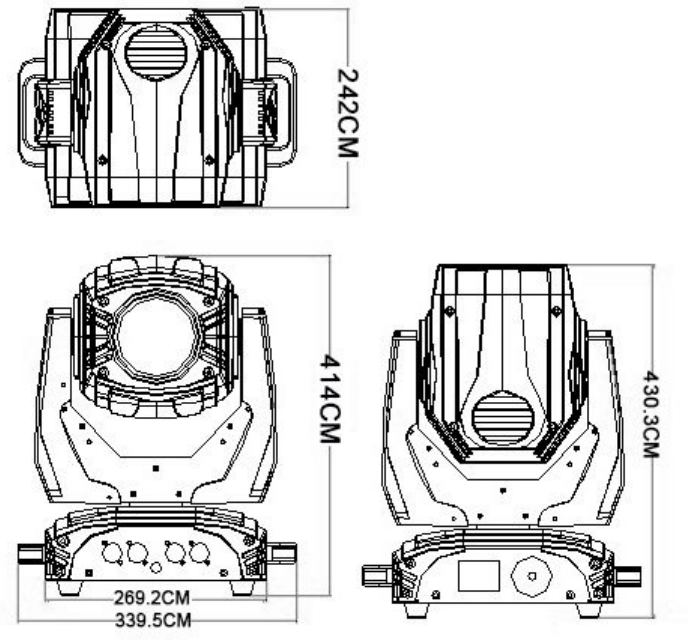
## Introduction

Thank you for having chosen Robot 2R. You will see you acquired a powerful and versatile device. Unpack your item. Before you initial start-up, please make sure that there is no damage caused by transportation. Should there be any, consult your dealer and do not use the device.

**Safety instructions**

This device has left our premises in absolutely perfect condition. In order to maintain this condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this user manual. Always disconnect from the mains, when the device is not in use or before cleaning it. Keep away children and amateurs from the device! There are no serviceable parts inside the device. Maintenance and service operations are only to be carried out by authorized dealers.

## Dimension



## Installation

On the rear panel of the item you can find an 3pin XLR-jack (DMX OUT) and an 3pin XLR-plug (DMX IN), which can be used for connecting several devices. Choose the device which is to control the effects. Connect the DMX OUT-jack with the DMX IN-plug of the next device.

**DMX-512 connection/connection between fixtures**

Occupation of the XLR-connection:

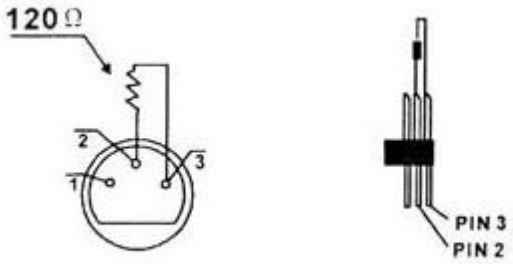
If you are using controllers with this occupation, you can connect the DMX-output of the controller directly with the DMX-input of the first fixture in the DMX-chain. If you wish to connect DMX-controllers with other XLR-outputs, you need to use adapter-cables.

**Building a serial DMX-chain**

Connect the DMX-output of the first fixture in the DMX-chain with the DMX-input of the next fixture. Always connect one output with the input of the next fixture until all fixtures are connected.

**DMX-512 connection with DMX terminator**

For installations where the DMX cable has to run a long distance or is in an electrically noisy environment, such as in a discotheque, it is recommended to use a DMX terminator. This helps in preventing corruption of the digital control signal by electrical noise. The DMX terminator is simply an XLR plug with a 120 resistor connected between pins 2 and 3, which is then plugged into the output XLR socket of the last fixture in the chain. Please see illustrations below.

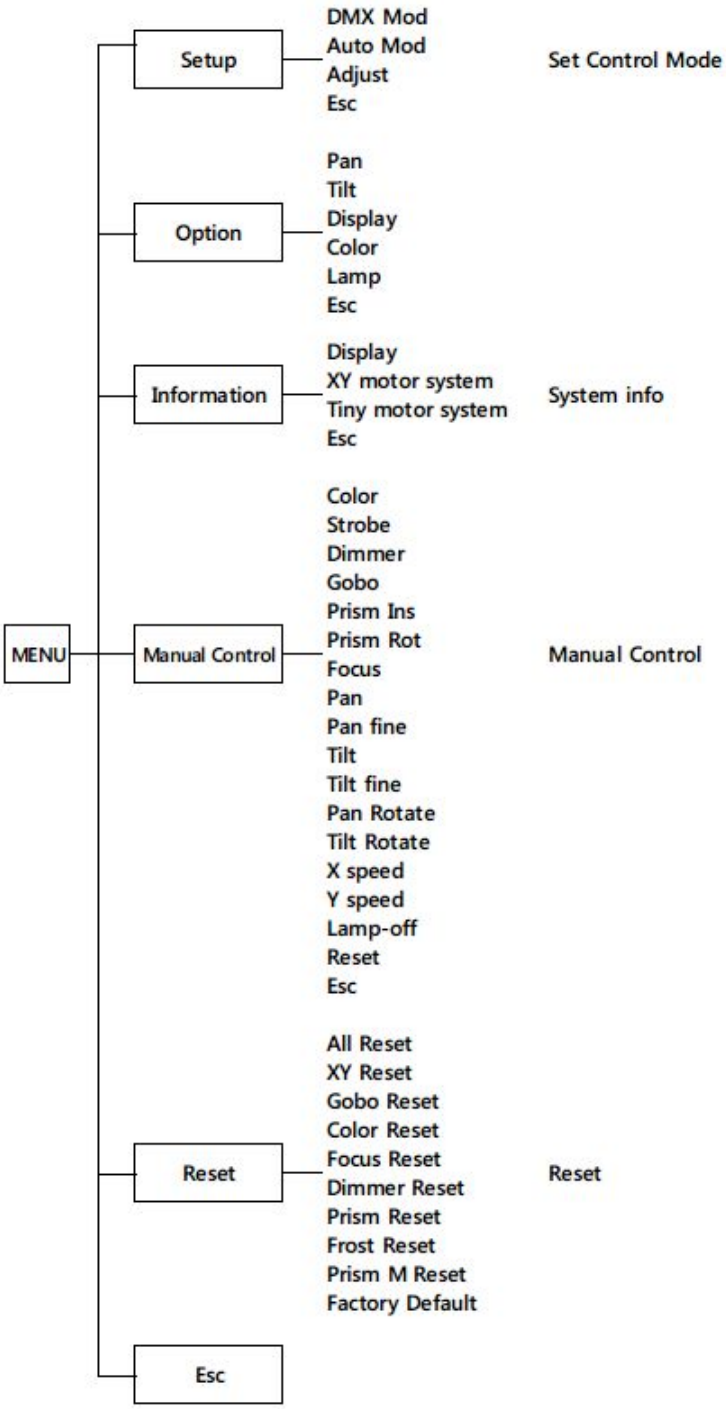



**Caution:** At the last fixture, the DMX-cable has to be terminated with a terminator. Solder a 120 resistor between Signal (–) and Signal (+) into a 3-pin XLR-plug and plug it in the DMX-output of the last fixture.

**Connection with the mains**

Connect the device to the mains with the enclosed power supply cable.

## Control menu map




## Operation

### Projector DMX starting address selection

All fixtures should be given a DMX starting address when using a DMX signal, so that the correct fixture responds to the correct control signals. This digital starting address is the channel number from which the fixture starts to listen to the digital control information sent out from the DMX controller. The allocation of this starting address is achieved by setting the correct number on the display located on the base of the device.

You can set the same starting address for all fixtures or a group of fixtures, or make different address for each fixture individually.

If you set the same address, all the units will start to listen to the same control signal from the same channel number. In other words, changing the settings of one channel will affect all the fixtures simultaneously.

If you set a different address, each unit will start to listen to the channel number you have set,based on the quantity of control channels of the unit. That means changing the settings of one channel will affect only the selected fixture.

In the case of the moving head, which is 13 channels fixture when you select the standard channel mode, you should set the starting address of the first unit to 1, the second unit to 14(13+1), the third unit to 27(13+14), and so on.

**Control Board**

The Control Board offers several features: you can simply set the starting address, switch on and off the lamp, run the pre-programmed program or make a reset.

The main menu is accessed by pressing the **Mode**-button until the display starts flashing. Browse through the menu by pressing the **Up**-button or **Down**-button. Press the **Enter**-button in order to select the desired menu. You can change the selection by pressing the Up-button or Down-button. Confirm every selection by pressing the **Enter**-button.You can leave every mode by pressing the **Mode**-button.The functions provided are described in the following sections.

## DMX Protocol

| 13 Channel mode | Function | Function Control |
|---|---|---|
| CH1 | Color | 0-8:White<br>9-17:color one<br>18-26:Color two<br>27-35:Color three<br>36-44:Color four<br>45-53:Color five<br>54-62:Color six<br>63-71:Color seven<br>72-80:Color eight<br>81-89:Color nine<br>90-98:Color ten<br>99-107:Color eleven<br>108-116:Color twelve<br>117-127:Color 13<br>128-191:Rainbow effect one<br>192-255:Rainbow effect two |
| CH2 | Strobe | 0-4: Light off<br>5-251: Strobe from slow to fast<br>252-255: Light on |
| CH3 | Dimmer | 0-255: Dimming 0%-100% |

| | | |
|---|---|---|
| CH4 | Gobo | 0-2:White<br>3-7:Pattern one<br>8-12:Pattern two<br>13-17:Pattern three<br>18-22:Pattern four<br>23-27:Pattern five<br>28-32:Pattern six<br>33-37:Pattern seven<br>38-42:Pattern eight<br>43-47:Pattern nine<br>48-52:Pattern ten<br>53-57:Pattern eleven<br>58-62:Pattern twelve<br>63-67:Pattern thirteen<br>68-71:Pattern fourteen<br>72-133:Flowing effect one<br>114-118:Stop<br>119-160:Flowing effect two<br>161-165:Stop<br>166-255:Gobos changing from slowly to quickly |
| CH5 | Prism | 0-127: No prism effect<br>128-255: Prism effect |
| CH6 | Rotating prism | |
| CH7 | Pan | 0-255: Pan 0°-540° |
| CH8 | Pan 16 BIT | 0-255: Pan 16 BIT |
| CH9 | Tilt | 0-255: Tilt 0°-270° |
| CH10 | Tilt 16 BIT | 0-255: Tilt 16 BIT |
| CH11 | Pan speed | |
| CH12 | Lamp switch | 101-110: Light off<br>200-255: Light on |
| CH13 | Reset / Auto | 120-129: Reset<br>200-255: Auto |

**Set DMX address**

Display the DMX 512 value of each channel. With this function you can display the DMX 512 value of each channel. The display automatically shows the channel with a value changing.

**Auto Program**

With this function, you can run the internal program. You can select the desired program under. You can set the number of steps under. You can edit the individual scenes under. With this function, you can run the individual scenes either automatically, i.e. with the adjusted Step-Time.

## Specifications

| | |
|---|---|
| Physical | Length: 34cm(13.3”)<br>Width: 22cm(8.6”)<br>Height: 43cm(17”)<br>Weight: 10.4kg(23lb) without accessories |
| Dynamic effects | Beam color wheel:13 color + open<br>Beam color temperature: CTO, 8000K<br>Electronic dimming: 0-100% linear dimming<br>Strobe and pulse effects: 1-12 times/second<br>Speed color-wheel: rotation effect and random color<br>Electronic "shutter" effect: instant open and blackout<br>Pan: 540°<br>Tilt: 270°<br>Pan speed: Adjustable via on board control panel and DMX |
| Control and Programming | Control option modes: DMX, stand alone<br>DMX channels: 13CH<br>Addressing and setting: control panel with LCD display<br>Control: DMX 512 |
| Optics | Light source: 2R lamp<br>Minimum LED lifetime: 2,000 hours<br>Manufacturer’s figure obtained under manufacturer’s test conditions<br>Lens: Optical glass lens |
| Construction | Housing: High-impact, flammable- retardant ABS<br>Color: black<br>IP rate: IP20 |
| Installation | Mounting: Adjustment bracket, surface or truss mount<br>Orientation: Any<br>Location: Indoor use |
| Connections | AC power in/through: Neutrik Power Con<br>DMX data in/through: 3-pin XLR |
| Electrical | AC power in/through: 100-240v nominal, 50/60 Hz<br>Rated power: 132W |
| Thermal | Cooling System: Forced air (temperature-regulated, low noise)<br>Temperature: Max ambient 40 degree |
| Included items | Power cable 1.5m (4.9’ )<br>Mounting bracket |

**Remark: All information is subject to change without prior notice.**